DATE OF ISSUE： 05 Feb.2009

SERVICE MANUAL

MODEL： GDC-AC12RCW/GDC-AC12RCB

GDC-AC9RCW/GDC-AC9RCS

NAME： PC32-06PMI，PC26-06PMI

ITEM	MODEL	DATE	VERSION	NOTE

APPROVAL	MADE BY
	MR. YEI

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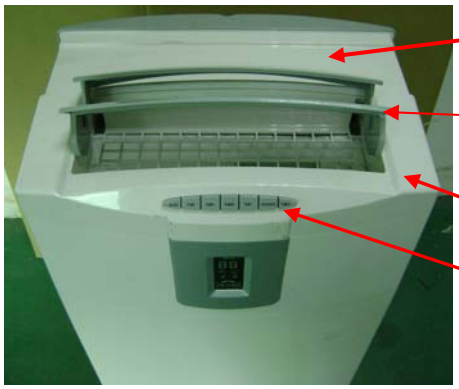
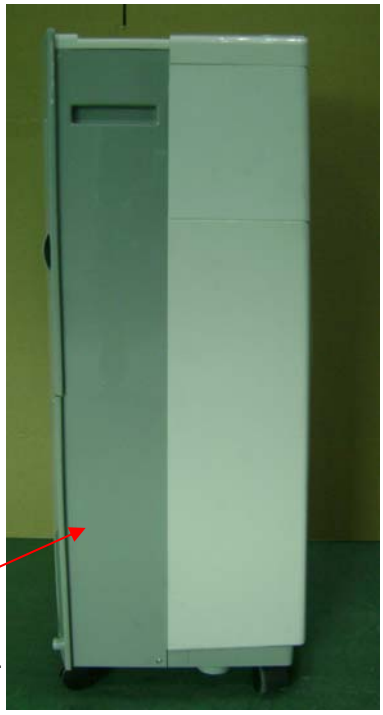
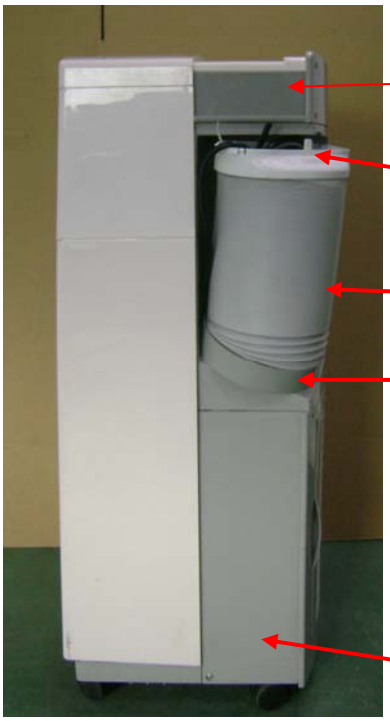
1. NAME OF SEPARATE PART





LEFT SIDE PANEL



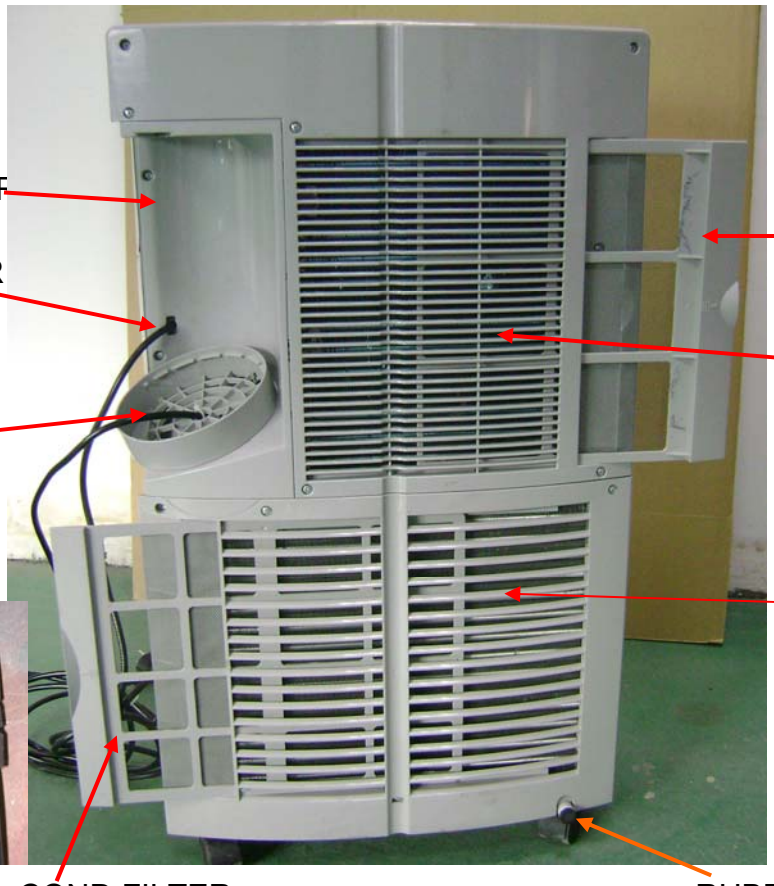
BACK PLATE-R

PIPE OUTER

PIPE EXHAUST

PIPE INNER

RIGHT SIDE PLATE



BACK PLATE-R

POWER CORD

DRAIN PIPE

PLUG

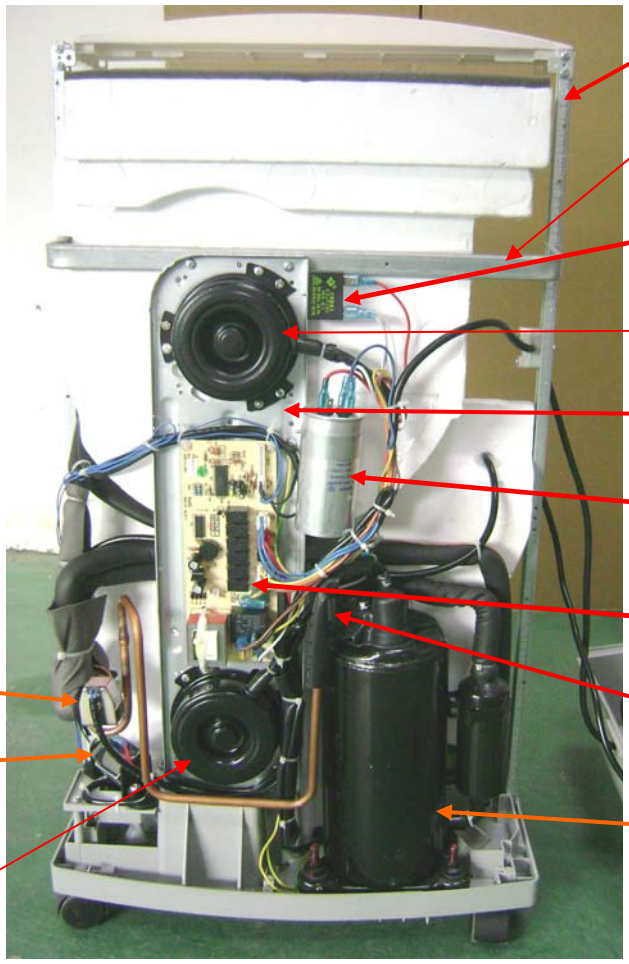
EVA FILTER

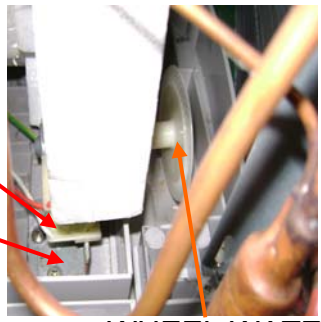
BACK PLATE-L

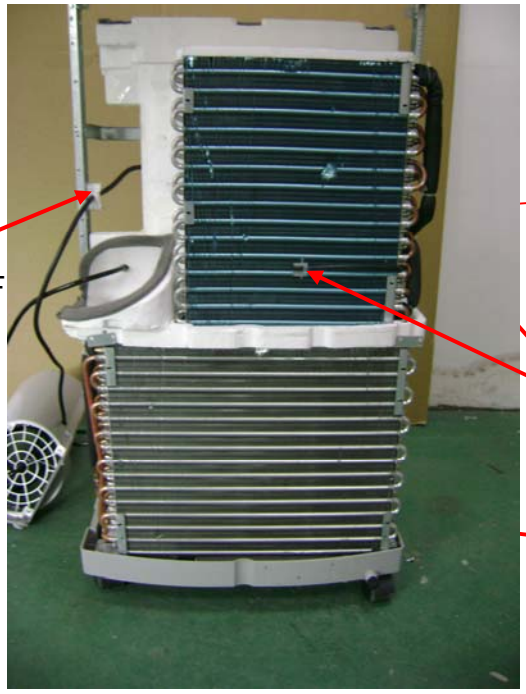
BACK PLATE-BOTTOM

COND FILTER

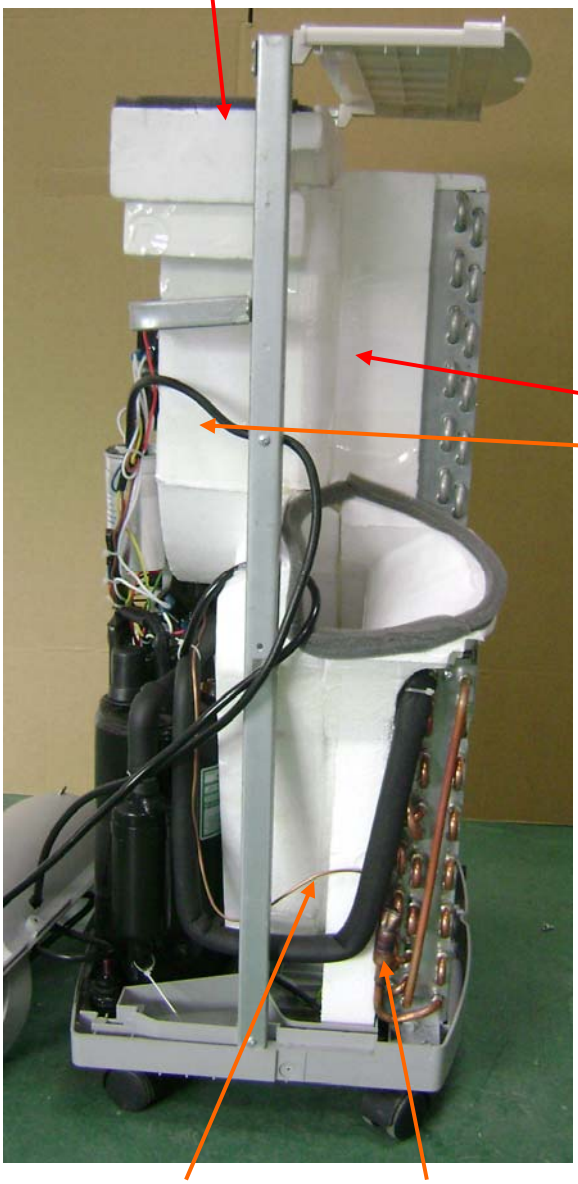
RUBBER STOPPER

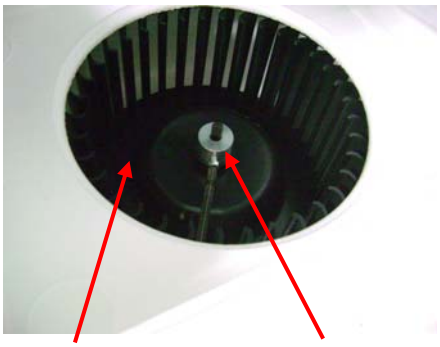

MAIN BRACKET
TRAVERSE BRACKET
CAPACITANCE OF INNER MOTOR
INNER MOTOR
BRACKET MOTOR
CAPACITANCE OF COMPRESSOR
PCB
CAPACITANCE OF OUTTER MOTOR
COMPRESSOR
4-WAY VALVE
PUMP MOTOR
OUTTER MOTOR


WATER MOTOR
MOTOR BRACKET FOR WATER MOTOR
WHEEL WATER


EVAPORATOR
FIXER OF CORD
TEMPERATURE SENSOR
CONDENSER
COIL TEMPERATURE SENSOR

HOUSING BLOWER,TOP



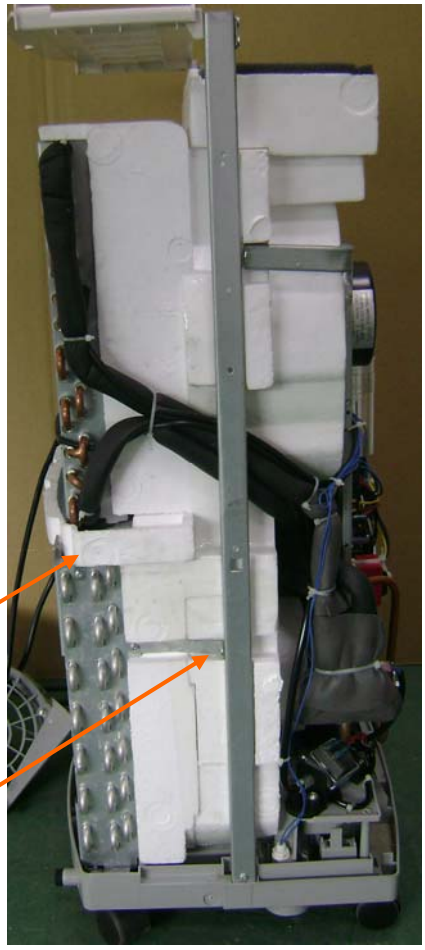


WHEEL BLOWER SCREW OF
φ215,ABS+GF WHEEL BLOWER

HOUSING BLOWER, BACK

HOUSING BLOWER, FRONT

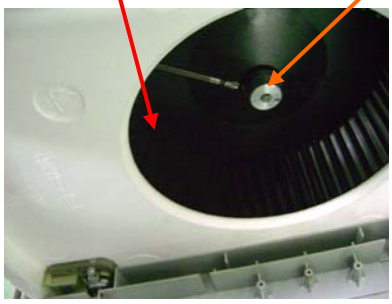
CAPILLARY STRAINER



DRAIN PAN

BLOWER FAN, § 240,ABS+GF

SCREW OF WHEEL BLOWER

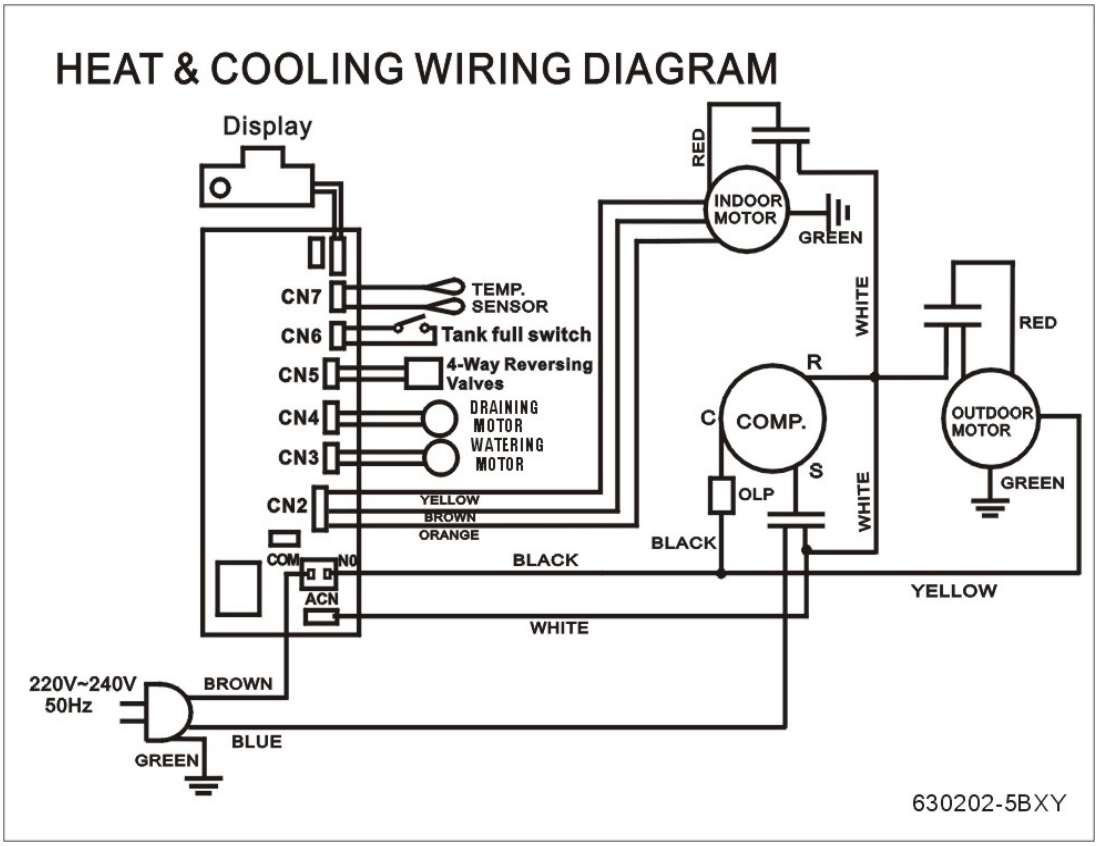


L-JOINER

2. SPECIFICATION

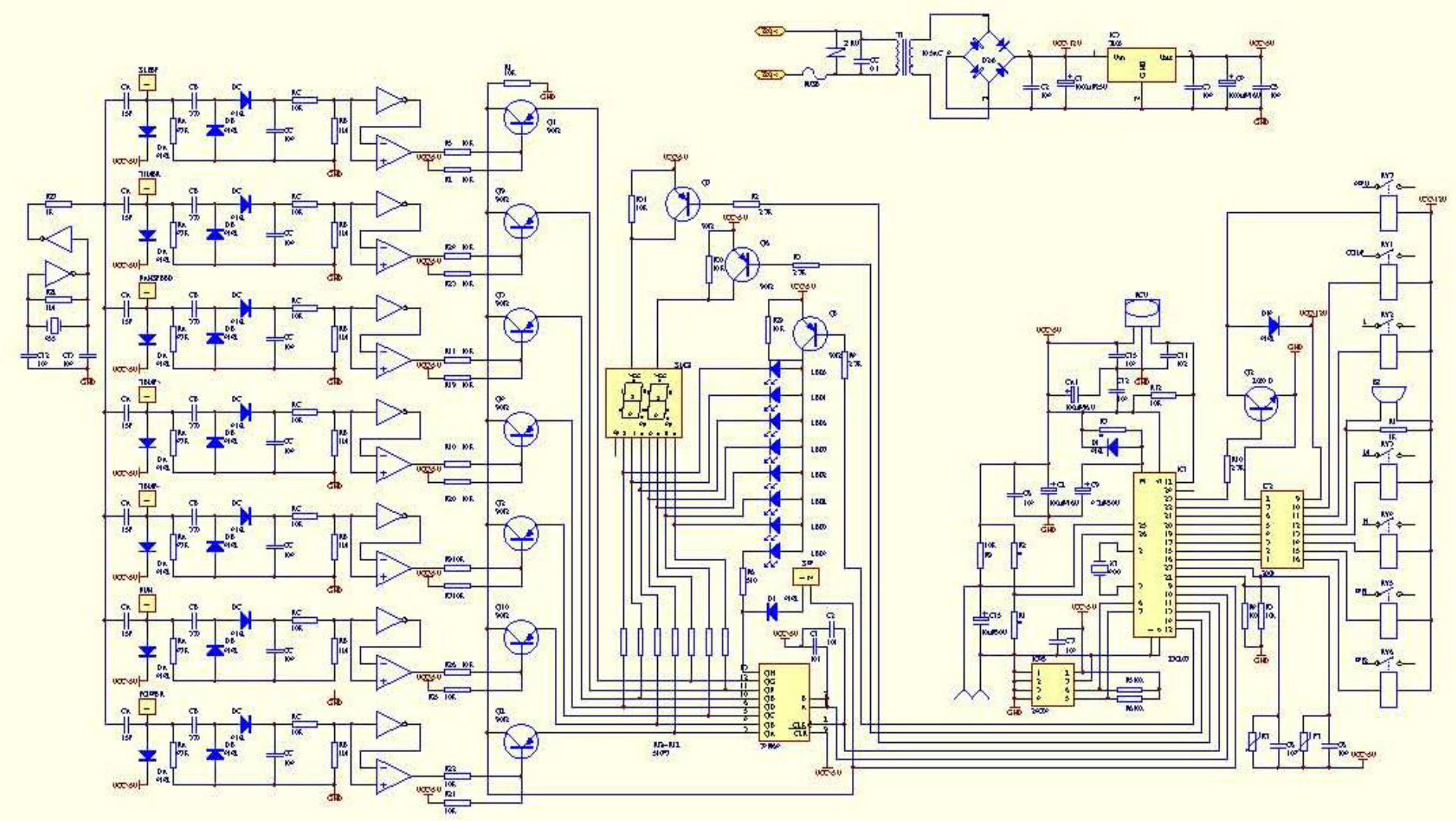
MODEL (UNITED)	PC26-06PMI	PC32-06PMI
MODEL（DIMPLEX）	GDC-AC9RCW/S	AC12RCW/B
POWER SOURCE	1 § 220-240V 50Hz AC	
MAX POWER COOLING	1250W	1480W
MAX POWER HEATING	1350W	1530W
COOLING CAPACITY	2600W	3500W
HEATING CAPACITY	3000W	3700W
MOISTURE REMOVED	32L/Day	50 L/Day
AIR VOLUME (M^3/H)	400	500
REFRIGERANT	R410A	R410A
UNIT DIMENSION	W 476 x D 358 x H 840	
WEIGHT	29.5Kg	30.5Kg
REMOTE CONTROL	Y	Y
TIMER SETTING	0 ~ 24 hrs	0 ~ 24 hrs
SLEEP	Y	Y
DEHUMIDITY	Y	Y
CONTROL	Y	Y
HEATING	Y	Y
DEFROST	Y	Y
ANION	N/A	N/A

3. WIRING DIAGRAM

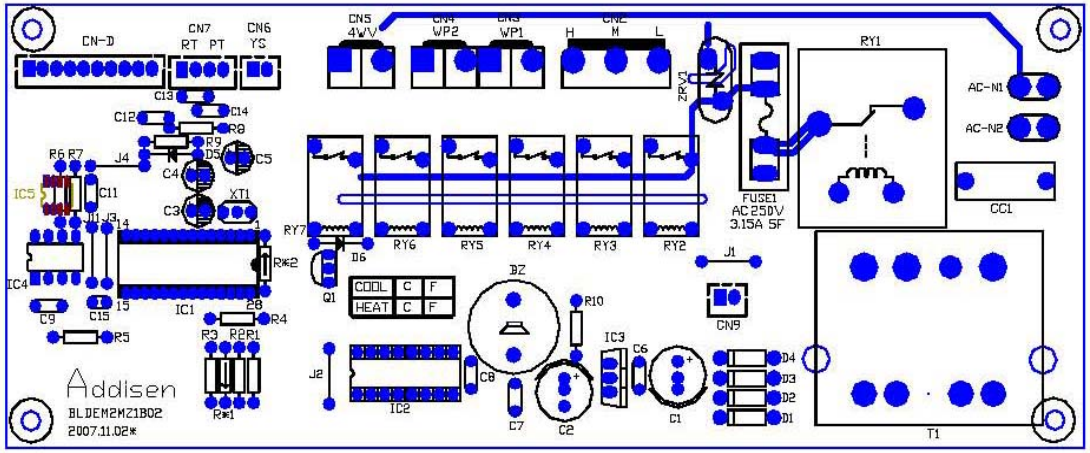


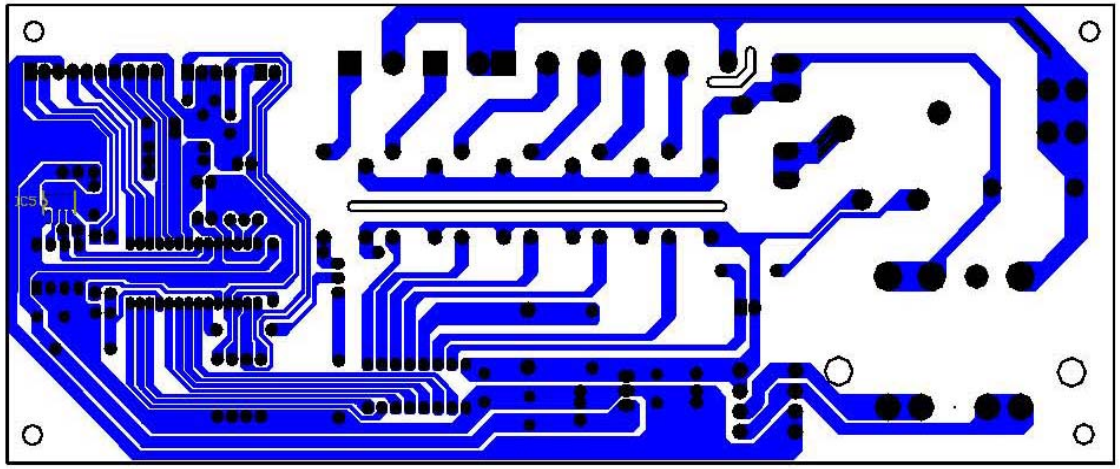
4. ELECTRIC CIRCUIT DIAGRAM

1:Electric Circuit Schematic Diagram

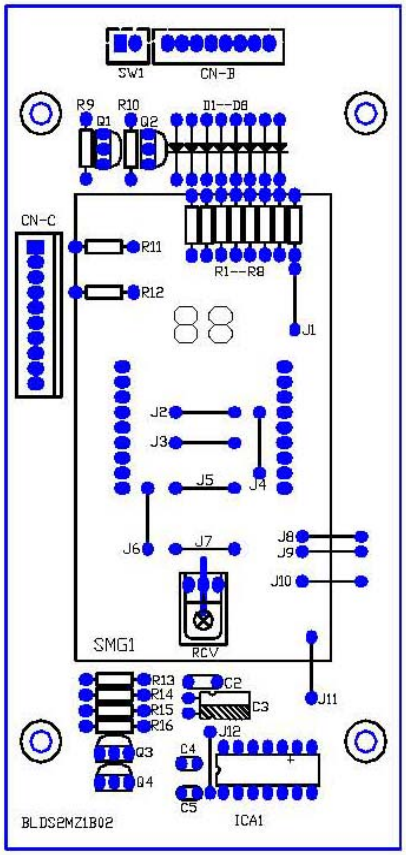


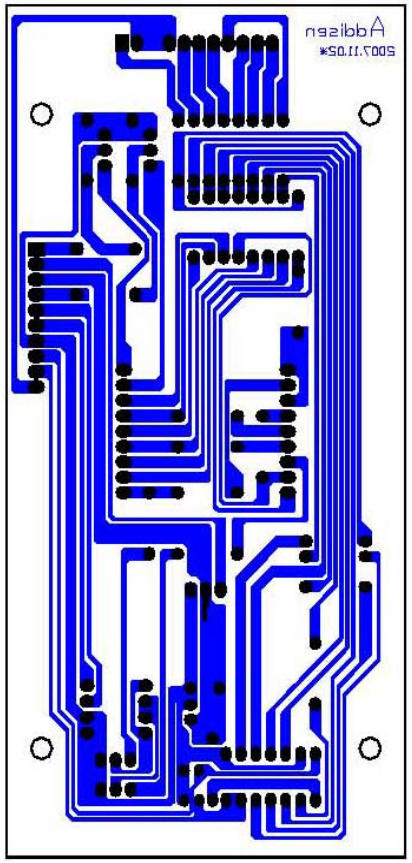
2. Main PCB silkscreening diagram & Copper oil tunnel diagram

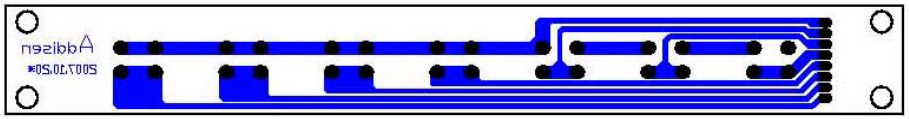




3. Display board silkscreening diagram & Copper oil tunnel diagram; Key board silkscreening diagram & Copper oil tunnel diagram





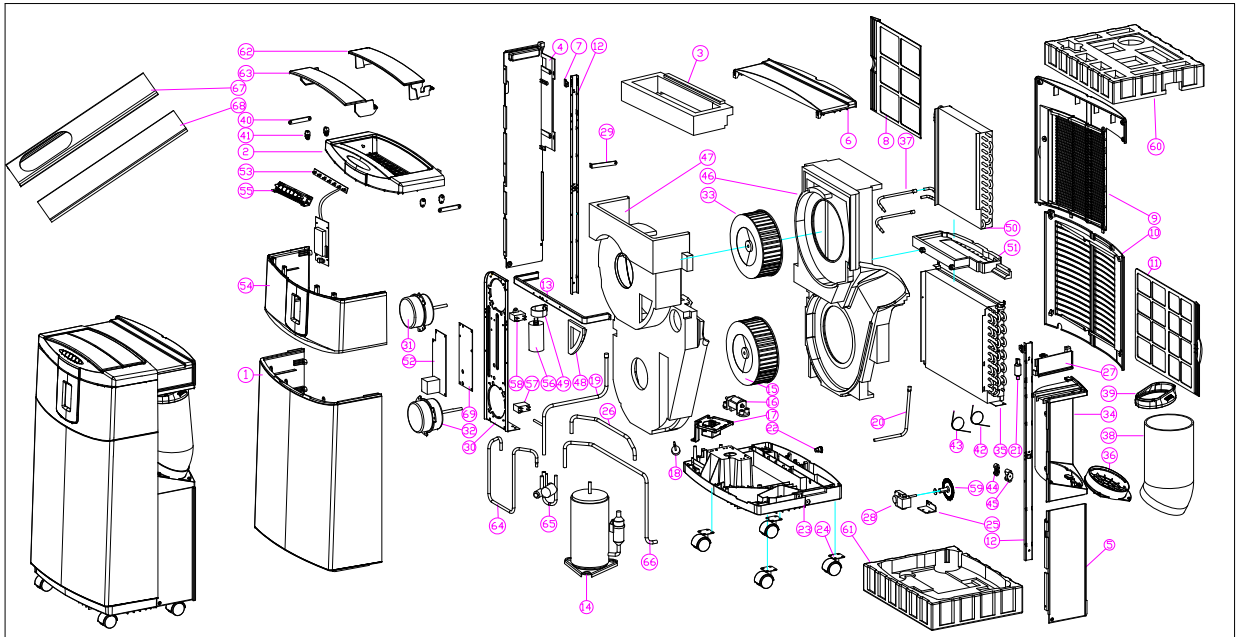


5.1: PC32-06PMI-AUSTRALIA (GDC-AC12RCW)- Explode(S2008066-2)

ITEM	PART NO.	PART NAME	Unit Price(USD)
1	210314-0AXY	FRONT PANEL	
2	210519-0Y-1-3	UPPER COVER-FRONT	
3	410259-0Y-1	HOUSING BLOWER,TOP	
4	210178-DFXY	LEFT SIDE PLATE	
5	210446-0Y-3	RIGHT SIDE PLATE	
6	210520-0Y-3	UPPER COVER-REAR	
7	110146-00XY	MOUNT FOR UPPER COVER-FRONT	
8	210333-9BAY	EVA FILTER 7TH	
9	210491-0Y-1	BACK PLATE-L	
10	210180-CD2Y	BACK PLATE-BOTTOM	
11	210182-CDAY	COND FILTER	
12	110144-0EXY	MAIN BRACKET	
13	110168-0Y-1	TRAVERSE BRACKET	
14	700161-00-3	COMP	
15	210016-1B2Y	BLOWER FAN, ϕ240,ABS+GF	
16	720044-0AXY	PUMP MOTOR	
17	210363-0AXY	BASE FOR PUMP MOTOR	
18	750026-0AXY	water-level regulator	
19	780165-AY-1-H	OUTLET FOR EVAPORATOR	
20	780166-0Y-1-H	INLET FOR CONDENSER	
21	740007-20XY	STRAINER	
22	310020-0Y-1	RUBBER STOPPER	
23	210325-DEXY-F	BASE,5C	
24	290025-00XY-H	WHEEL TWP	

ITEM	PART NO.	PART NAME	Unit Price(USD)
25	110176-AY-2	MOTOR BRACKET FOR WATER MOTOR	
26	780164-0Y-5	SUCTION TUBE	
27	210492-0Y-1	BACK PLATE-R ,5C	
28	720075-AY-3	MOTOR WATER	
29	110139-00XY	L-JOINER	
30	110136-0DXY	BRACKET MOTOR	
31	720072-0Y-3	INNER MOTOR	
32	720078-0Y-3	OUTER MOTOR	
33	210449-0Y-3	WHEEL BLOWER,φ215,ABS+GF	
34	210428-AY-3	BACK PLATE-R	
35	710132-0CAY	CONDENSER	
36	210468-0Y-2	PIPE INNER	
37	780202-0Y-1-H	JOINER FOR CAPILLARY	
38	290008-A0XY	PIPE EXHAUST	
39	210469-AY-2	PIPE OUTER	
40	210483-0Y-1	Join for horizontal blade	
41	210484-AY-1	Lever for horizontal blade	
42	780203-0Y-26	CAPILLARY, 0.8*2.0*500L	
43	780203-0Y-27	CAPILLARY, 0.8*2.0*550L	
44	210549-0Y-1	wire holder-top	
45	210550-AY-1	wire holder-bottom	
46	410210-0Y-2	HOUSING BLOWER,BACK	
47	410211-0Y-2	HOUSING BLOWER, FRONT	
48	410189-AY-1-A0604	Enclosure for housing blower	

ITEM	PART NO.	PART NAME	Unit Price(USD)
49	190004-004Y	Clip for capacitor	
50	710133-4BAY	EVAPORATOR	
51	410188-AY-1-X	DRAIN PAN	
52	800124-0Y-3-1-K	MAIN PCB ,HEAT PUMP	
53	800142-0Y-1-1	DISPLAY PCB+LED MODULE	
54	210521-0Y-4	FRONT PANEL-MIDDLE	
55	210522-0Y-1	KEY BOARD	
56	730001-10XY	CAP, 30uF 450V	
57	730052-0Y-1	CAP, 3.5uFx450VAC	
58	730049-00XY	CAP, 3.0uFx450VAC	
59	210186-0BXY	WHEEL WATER	
60	410262-0Y-1	PACKING TOP PSF	
61	410263-0Y-1	PACKING BOTTOM PSF	
62	210481-BY-1	Horizontal blade A	
63	210482-BY-1	Horizontal blade B	
64	780167-0Y-1-H	DISCHARGE TUBE	
65	740010-00XY	4-WAY VALVE	
66	780168-0Y-1-H	INLET FOR CONDENSER	
67	230028-0Y-3	WINDOW KIT A	
68	230029-0Y-1	WINDOW KIT B	
69	280008-10XY	Insulator Plate	
	610061-0Y-34	CARTON	
	760045-0Y-4-1	POWER CORD	
	800074-80XY-K	REMOTE CONTROLLER	
	620179-0Y-6	MANUAL	
	870010-A0XY	TEMP. SENSOR	



變更記錄 REVISIONS		材質 MATERIAL		部門 DEPAT	研展	單位 UNIT	M / M
		處理 TREATMENT		數量 Q'TY	1PC/SET	比例 SCALE	
		備考 REMARKS		圖名 NAME	06PMI 爆炸图		
		製圖 DWN	檢圖 CKD	核准 APPD	代號 PARTS NO.		
		黃晓明 080412			機種 MODEL	PC26/32-06PMI	

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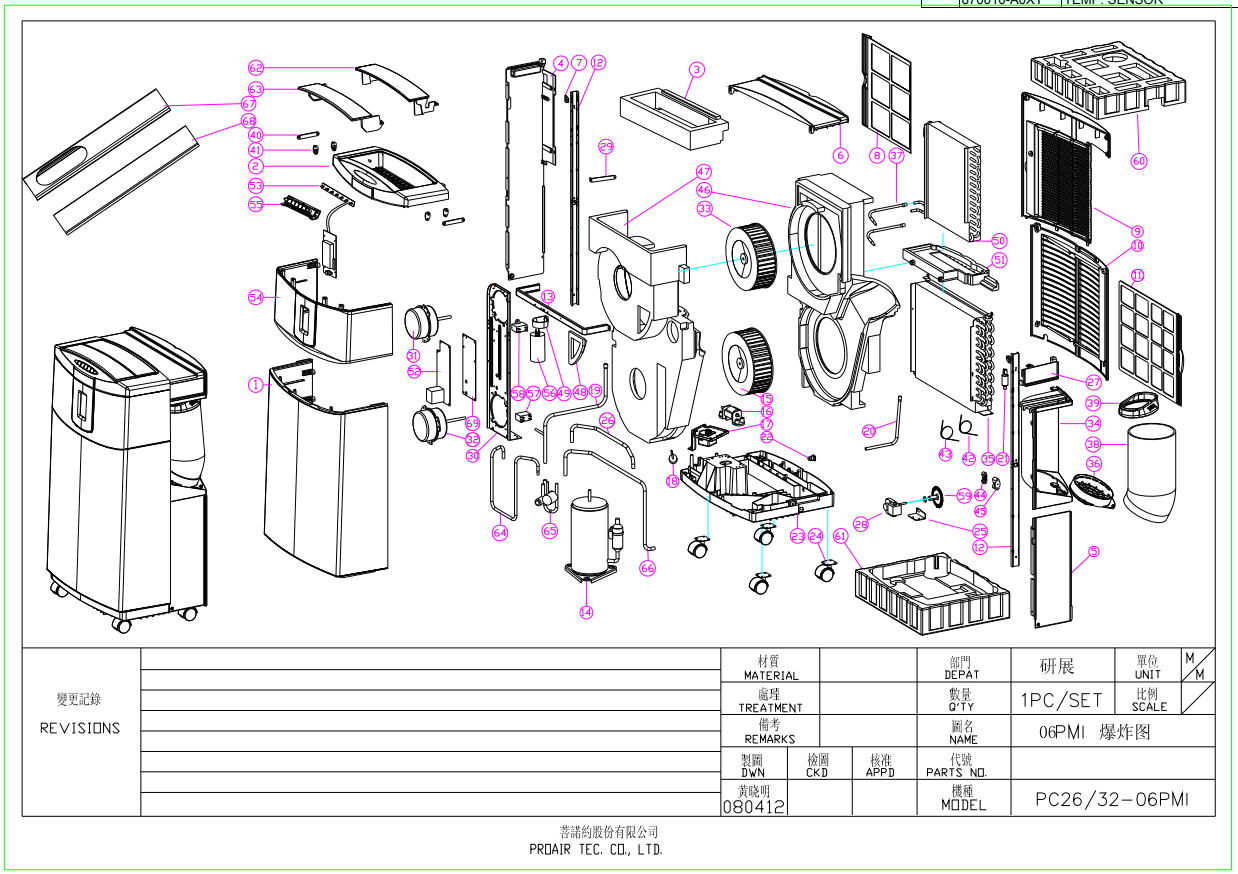
PROAIR TEC. CO., LTD.

5.2: PC32-06PMI-AUSTRALIA-BLACK (GDC-AC12RCB) Explode(S2008050-3)

ITEM	PART NO.	PART NAME	Unit Price(USD)	ITEM	PART NO.	PART NAME	Unit Price(USD)	ITEM	PART NO.	PART NAME	Unit Price(USD)
1	210314-8AXY	FRONT PANEL,BLACK		25	110176-AY-2	MOTOR BRACKET FOR WATER MOTOR		49	190004-004Y	Clip for capacitor	
2	210519-0Y-1-3	UPPER COVER-FRONT		26	780164-0Y-5	SUCTION TUBE		50	710133-4BAY	EVAPORATOR	
3	410259-0Y-1	HOUSING BLOWER,TOP		27	210492-0Y-3	BACK PLATE-R ,BLACK		51	410188-AY-1-X	DRAIN PAN	
4	210178-EFXY	LEFT SIDE PLATE,BLACK		28	720075-AY-3	MOTOR WATER		52	800124-0Y-3-1-K	MAIN PCB ,HEAT PUMP	
5	210446-0Y-1	RIGHT SIDE PLATE ,BLACK		29	110139-00XY	L-JOINER		53	800142-0Y-1-1	DISPLAY PCB+LED MODULE	
6	210520-0Y-1	UPPER COVER-REAR,BLACK		30	110136-0DXY	BRACKET MOTOR		54	210521-0Y-3	FRONT PANEL-MIDDLE,BLACK	
7	110146-00XY	MOUNT FOR UPPER COVER-FRONT		31	720078-0Y-3	INNER MOTOR		55	210522-0Y-1	KEY BOARD	
8	210333-1BAY-1	EVA FILTER 7TH,BLACK		32	720071-0Y-3	OUTER MOTOR		56	730001-10XY	CAP, 30uF 450V	
9	210491-0Y-4	BACK PLATE-L ,BLACK		33	210449-0Y-3	WHEEL BLOWER,φ215,ABS+GF		57	730052-0Y-1	CAP, 3.5uFx450VAC	
10	210180-BD2Y	BACK PLATE-BOTTOM ,BLACK		34	210428-AY-2	BACK PLATE-R ,BLACK		58	730049-00XY	CAP, 3.0uFx450VAC	
11	210182-BDAY-1	COND FILTER,BLACK		35	710132-0CAY	CONDENSER		59	210186-0BXY	WHEEL WATER	
12	110144-0EXY	MAIN BRACKET		36	210468-0Y-3	PIPE INNER,BLACK		60	410262-0Y-1	PACKING TOP PSF	
13	110168-0Y-1	TRAVERSE BRACKET		37	780202-0Y-1	JOINER FOR CAPILLARY		61	410263-0Y-1	PACKING BOTTOM PSF	
14	700161-00-1	COMP		38	290008-A0XY	PIPE EXHAUST		62	210481-BY-1	Horizontal blade A	
15	210016-1B2Y	BLOWER FAN, § 240,ABS+GF		39	210469-AY-3	PIPE OUTER,BLACK		63	210482-BY-1	Horizontal blade B	
16	720044-0AXY	PUMP MOTOR		40	210483-0Y-1	Join for horizontal blade		64	780167-0Y-1-H	DISCHARGE TUBE	
17	210363-0AXY	BASE FOR PUMP MOTOR		41	210484-AY-1	Lever for horizontal blade		65	740010-00XY	4-WAY VALVE	
18	750026-0AXY	water-level regulator		42	780203-0Y-27	CAPILLARY, 0.8x2.0xL500		66	780168-0Y-1-H	INLET FOR CONDENSER	
19	780165-AY-1-H	OUTLET FOR EVAPORATOR		43	780203-0Y-26	CAPILLARY, 0.8x2.0xL550		67	230028-0Y-3	WINDOW KIT A	
20	780166-0Y-1-H	INLET FOR CONDENSER		44	210549-0Y-1	wire holder-top		68	230029-0Y-1	WINDOW KIT B	
21	740007-20XY	STRAINER		45	210550-AY-1	wire holder-bottom		69	280008-10XY	Insulator Plate	
22	310020-0Y-1	RUBBER STOPPER		46	410210-0Y-2	HOUSING BLOWER,BACK			610061-0Y-31	CARTON	
23	210325-FEXY-F	BASE,BLACK		47	410211-0Y-2	HOUSING BLOWER, FRONT			760045-0Y-4-1	POWER CORD	
24	290025-00XY-H	WHEEL TWP		48	410189-AY-1-A0604	Enclosure for housing blower			800074-90XY-K	REMOTE CONTROLLER,BLACK	
									620179-0Y-6	MANUAL	
									870010-A0XY	TEMP. SENSOR	



變更記錄 REVISIONS		材質 MATERIAL		部門 DEPAT	研展	單位 UNIT	M/M
		處理 TREATMENT		數量 Q'TY	1PC/SET	比例 SCALE	
		備考 REMARKS		圖名 NAME	06PMI 爆炸图		
		製圖 DWN	檢圖 CKD / 核准 APPD	代號 PARTS NO.			
		黃晓明 080412		機種 MODEL	PC26/32-06PMI		

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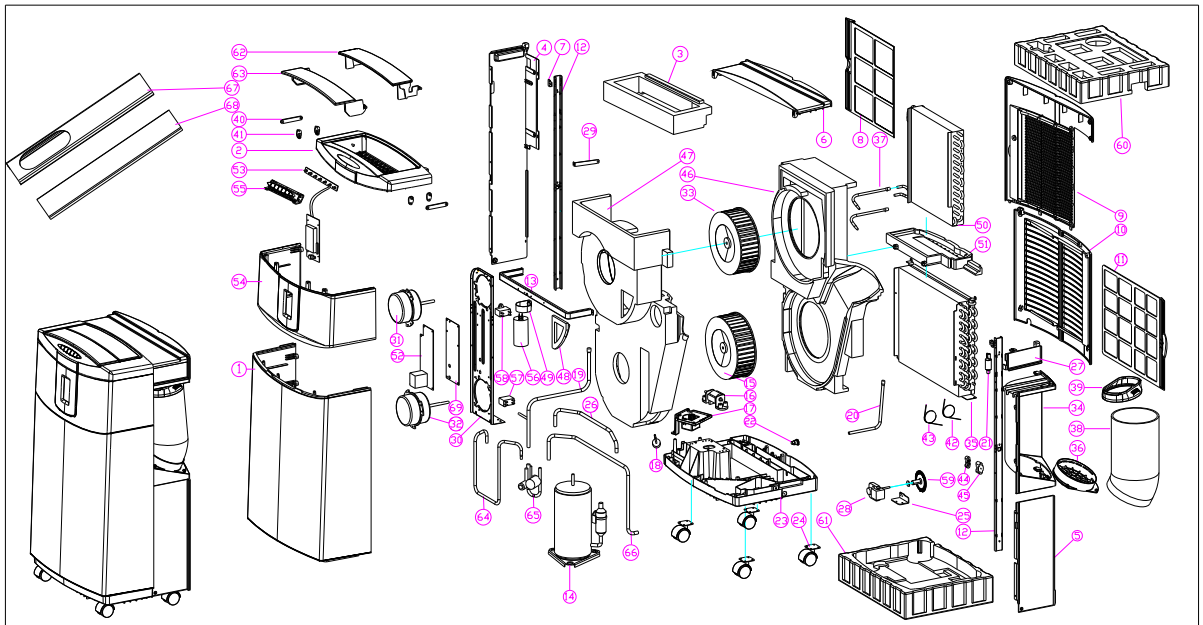
PROAIR TEC. CO., LTD.

6.1: PC26-06PMI-AUSTRALIA-SILVER (GDC-AC9RCS)- Explode(S2008050-2)

ITEM	PART NO.	PART NAME	Unit Price(USD)	ITEM	PART NO.	PART NAME	Unit Price(USD)	ITEM	PART NO.	PART NAME	Unit Price(USD)
1	210314-1AXY	FRONT PANEL,SILVER		25	110176-AY-2	MOTOR BRACKET FOR WATER MOTOR		49	190004-004Y	Clip for capacitor	
2	210519-0Y-1-3	UPPER COVER-FRONT		26	780164-0Y-5	SUCTION TUBE		50	710131-AEAY	EVAPORATOR	
3	410259-0Y-1	HOUSING BLOWER,TOP		27	210492-0Y-1	BACK PLATE-R		51	410188-AY-1-X	DRAIN PAN	
4	210178-DFXY	LEFT SIDE PLATE		28	720075-AY-3	MOTOR WATER		52	800124-0Y-3-1-K	MAIN PCB ,HEAT PUMP	
5	210446-0Y-3	RIGHT SIDE PLATE		29	110139-00XY	L-JOINER		53	800142-0Y-1-1	DISPLAY PCB+LED MODULE	
6	210520-0Y-3	UPPER COVER-REAR		30	110136-0DXY	BRACKET MOTOR		54	210521-0Y-6	FRONT PANEL-MIDDLE,OVERALL PAINT	
7	110146-00XY	MOUNT FOR UPPER COVER-FRONT		31	720072-0Y-3	INNER MOTOR		55	210522-0Y-1	KEY BOARD	
8	210333-9BAY	EVA FILTER 7TH		32	720071-0Y-3	OUTER MOTOR		56	730002-20XY	CAP, 30uF 450VAC(45)VDE	
9	210491-0Y-1	BACK PLATE-L		33	210449-0Y-3	WHEEL BLOWER,φ215,ABS+GF		57	730052-0Y-1	CAP, 3.5uFx450VAC	
10	210180-CD2Y	BACK PLATE-BOTTOM		34	210428-AY-3	BACK PLATE-R		58	73000800XY	CAP, 2.5uFx450VAC	
11	210182-CDAY	COND FILTER		35	710132-2BAY	CONDENSER		59	210186-0BXY	WHEEL WATER	
12	110144-0EXY	MAIN BRACKET		36	210468-0Y-2	PIPE INNER		60	410262-0Y-1	PACKING TOP PSF	
13	110168-0Y-1	TRAVERSE BRACKET		37	780202-0Y-1-H	JOINER FOR CAPILLARY		61	410263-0Y-1	PACKING BOTTOM PSF	
14	700162-00-3	COMP, C-1RN75H5D R410a		38	290008-A0XY	PIPE EXHAUST		62	210481-BY-1	Horizontal blade A	
15	210016-1B2Y	BLOWER FAN, § 240,ABS+GF		39	210469-AY-2	PIPE OUTER		63	210482-BY-1	Horizontal blade B	
16	720044-0AXY	PUMP MOTOR		40	210483-0Y-1	Join for horizontal blade		64	780167-0Y-3	DISCHARGE TUBE	
17	210363-0AXY	BASE FOR PUMP MOTOR		41	210484-AY-1	Lever for horizontal blade		65	740010-00XY	4-WAY VALVE	
18	750026-0AXY	water-level regulator		42	780203-0Y-7	CAPILLARY, 1.1x2.4xL600		66	780168-0Y-2	INLET FOR CONDENSER	
19	780165-0Y-3	OUTLET FOR EVAPORATOR		43				67	230028-0Y-3	WINDOW KIT A	
20	780166-0Y-1-H	INLET FOR CONDENSER		44	210549-0Y-1	wire holder-top		68	230029-0Y-1	WINDOW KIT B	
21	740007-4AXY	STRAINER		45	210550-AY-1	wire holder-bottom		69	280008-10XY	Insulator Plate	
22	310020-0Y-1	RUBBER STOPPER		46	410210-0Y-2	HOUSING BLOWER,BACK			610061-0Y-30	CARTON	
23	210325-DEXY-F	BASE,5C		47	410211-0Y-2	HOUSING BLOWER, FRONT			760045-0Y-4-1	POWER CORD	
24	290025-00XY-H	WHEEL TWP		48	410189-AY-1-A0604	Enclosure for housing blower			800074-80XY-K	REMOTE CONTROLLER	
									620179-0Y-6	MANUAL	
									870010-A0XY	TEMP. SENSOR	



變更記錄 REVISIONS		材質 MATERIAL		部門 DEPAT	研展	單位 UNIT	M/M
		處理 TREATMENT		數量 Q'TY	1PC/SET	比例 SCALE	
		備考 REMARKS		圖名 NAME	06PMI 爆炸图		
		製圖 DWN	檢圖 CKD / 核准 APPD	代號 PARTS NO.			
		黃曉明 080412		機種 MODEL	PC26/32-06PMI		

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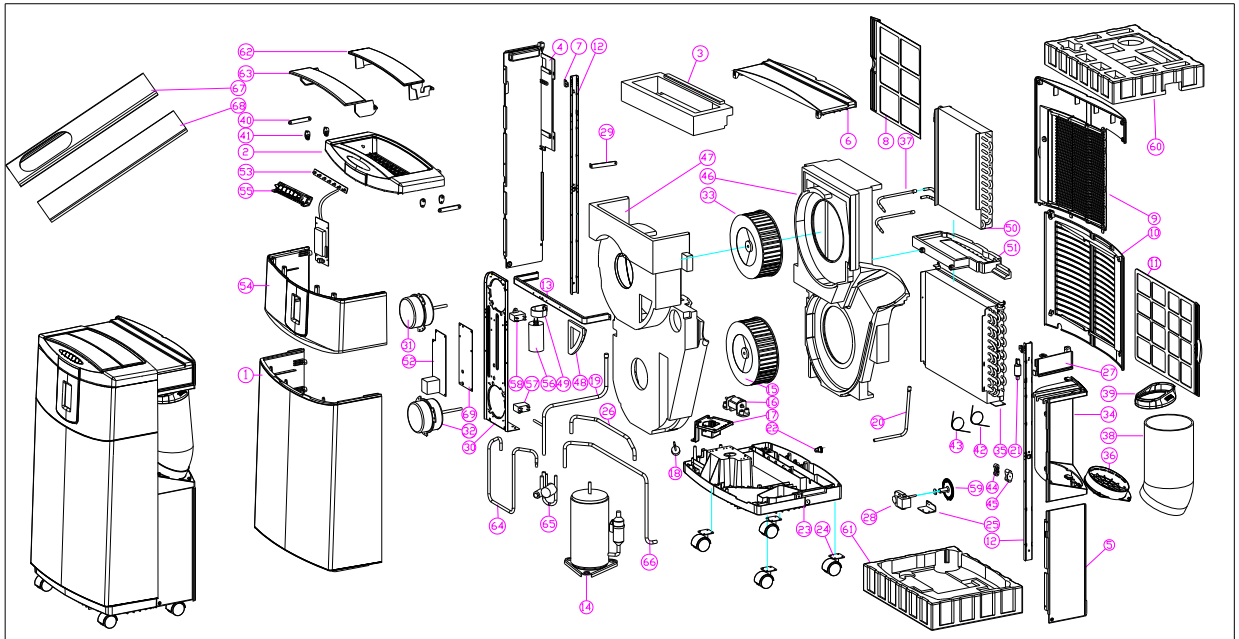
6.2: PC26-06PMI-AUSTRALIA (GDC-AC9RCW)-Explode(S2008066-1)

ITEM	PART NO.	PART NAME	Unit Price(USD)
1	210314-0AXY	FRONT PANEL	
2	210519-0Y-1-3	UPPER COVER-FRONT	
3	410259-0Y-1	HOUSING BLOWER,TOP	
4	210178-DFXY	LEFT SIDE PLATE	
5	210446-0Y-3	RIGHT SIDE PLATE	
6	210520-0Y-3	UPPER COVER-REAR	
7	110146-00XY	MOUNT FOR UPPER COVER-FRONT	
8	210333-9BAY	EVA FILTER 7TH	
9	210491-0Y-1	BACK PLATE-L	
10	210180-CD2Y	BACK PLATE-BOTTOM	
11	210182-CDAY	COND FILTER	
12	110144-0EXY	MAIN BRACKET	
13	110168-0Y-1	TRAVERSE BRACKET	
14	700162-00-3	COMP, C-1RN75H5D R410a	
15	210016-1B2Y	BLOWER FAN, ϕ 240,ABS+GF	
16	720044-0AXY	PUMP MOTOR	
17	210363-0AXY	BASE FOR PUMP MOTOR	
18	750026-0AXY	water-level regulator	
19	780165-0Y-3	OUTLET FOR EVAPORATOR	
20	780166-0Y-1-H	INLET FOR CONDENSER	
21	740007-4AXY	STRAINER	
22	310020-0Y-1	RUBBER STOPPER	
23	210325-DEXY-F	BASE,5C	
24	290025-00XY-H	WHEEL TWP	

ITEM	PART NO.	PART NAME	Unit Price(USD)
25	110176-AY-2	MOTOR BRACKET FOR WATER MOTOR	
26	780164-0Y-5	SUCTION TUBE	
27	210492-0Y-1	BACK PLATE-R	
28	720075-AY-3	MOTOR WATER	
29	110139-00XY	L-JOINER	
30	110136-0DXY	BRACKET MOTOR	
31	720072-0Y-3	INNER MOTOR	
32	720071-0Y-3	OUTER MOTOR	
33	210449-0Y-3	WHEEL BLOWER,φ215,ABS+GF	
34	210428-AY-3	BACK PLATE-R	
35	710132-2BAY	CONDENSER	
36	210468-0Y-2	PIPE INNER	
37	780202-0Y-1-H	JOINER FOR CAPILLARY	
38	290008-A0XY	PIPE EXHAUST	
39	210469-AY-2	PIPE OUTER	
40	210483-0Y-1	Join for horizontal blade	
41	210484-AY-1	Lever for horizontal blade	
42	780203-0Y-7	CAPILLARY, 1.1x2.4xL600	
43			
44	210549-0Y-1	wire holder-top	
45	210550-AY-1	wire holder-bottom	
46	410210-0Y-2	HOUSING BLOWER,BACK	
47	410211-0Y-2	HOUSING BLOWER, FRONT	
48	410189-AY-1-A0604	Enclosure for housing blower	

ITEM	PART NO.	PART NAME	Unit Price(USD)
49	190004-004Y	Clip for capacitor	
50	710131-AEAY	EVAPORATOR	
51	410188-AY-1-X	DRAIN PAN	
52	800124-0Y-3-1-K	MAIN PCB ,HEAT PUMP	
53	800142-0Y-1-1	DISPLAY PCB+LED MODULE	
54	210521-0Y-4	FRONT PANEL-MIDDLE	
55	210522-0Y-1	KEY BOARD	
56	730002-20XY	CAP, 30uF 450VAC(45)VDE	
57	730052-0Y-1	CAP, 3.5uFx450VAC	
58	73000800XY	CAP, 2.5uFx450VAC	
59	210186-0BXY	WHEEL WATER	
60	410262-0Y-1	PACKING TOP PSF	
61	410263-0Y-1	PACKING BOTTOM PSF	
62	210481-BY-1	Horizontal blade A	
63	210482-BY-1	Horizontal blade B	
64	780167-0Y-3	DISCHARGE TUBE	
65	740010-00XY	4-WAY VALVE	
66	780168-0Y-2	INLET FOR CONDENSER	
67	230028-0Y-3	WINDOW KIT A	
68	230029-0Y-1	WINDOW KIT B	
69	280008-10XY	Insulator Plate	
	610061-0Y-33	CARTON	
	760045-0Y-4-1	POWER CORD	
	800074-80XY-K	REMOTE CONTROLLER	
	620179-0Y-6	MANUAL	
	870010-A0XY	TEMP. SENSOR	



變更記錄 REVISIONS		材質 MATERIAL		部門 DEPAT	研展	單位 UNIT	M/M
		處理 TREATMENT		數量 Q'TY	1PC/SET	比例 SCALE	
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		黃曉明 080412			機種 MODEL	PC26/32-06PMI	

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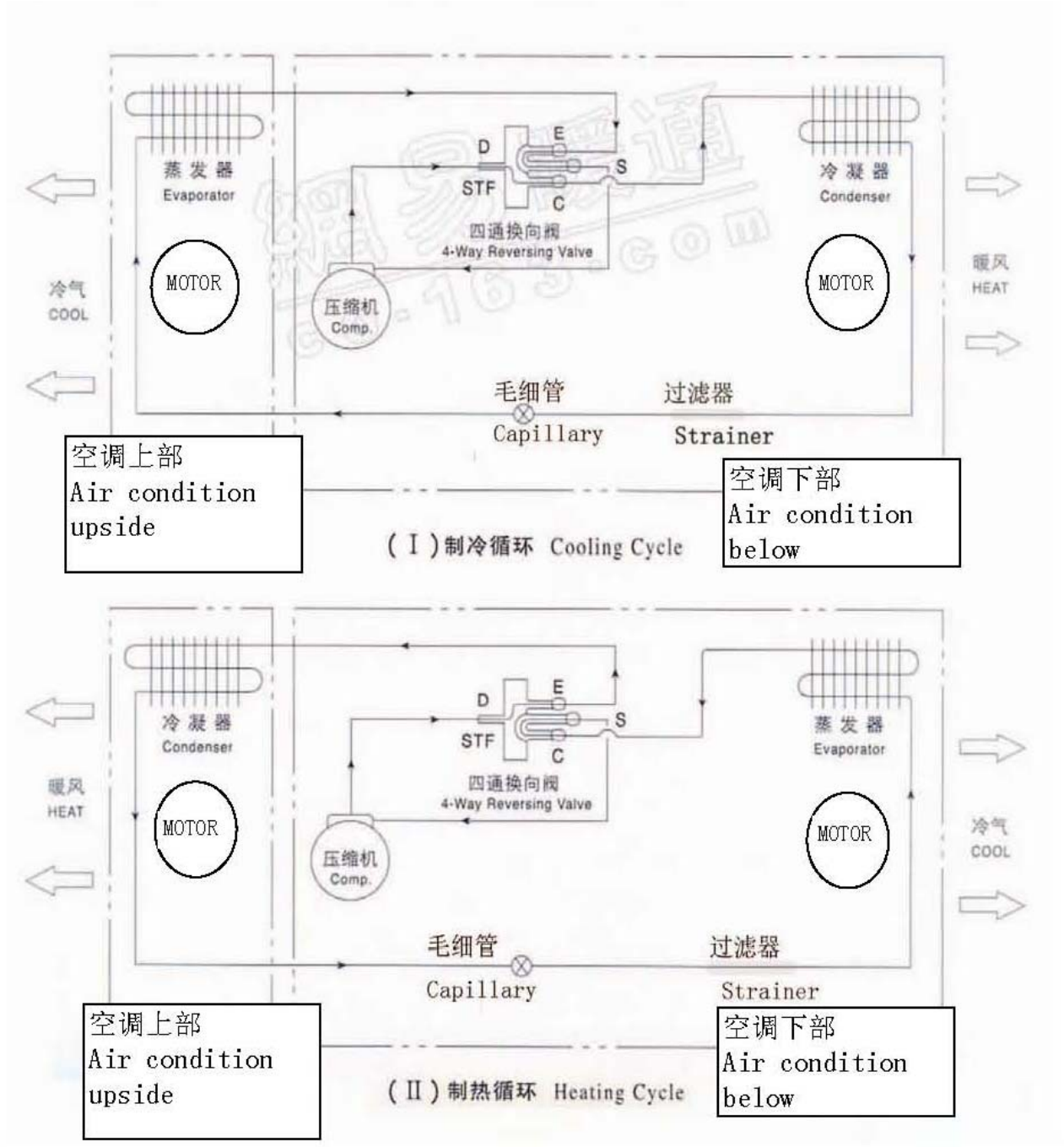
7.STRUCTURE OF COOLING SYSTEM



The funtion for each part of system:

1.COMPRESSOR： Compressing gas state refrigerant to be high temperature-high pressure liquid

2.CONDENSATOR: Releasing heat.Let high temperature refrigerant releasing heat and become high pressure- regular temperature state refrigerant.

3.STRAINER： Straining impurities of water vapor in the Refrigeration system, preventing capillary plugging

4.CAPILLARY： refrigerant become low temperature-low pressure gas state after through capillary.(Capillary is a thin brass, from small-diameter(Capillary) to large diameter(evaporator),area increase,high pressure-regular temperature state refrigerant become low temperature-low pressure gas state.)

5.EVAPORATOR： Absorb heat.Refrigerant become gasification in the evaporator.(low temperature-low pressure state)

6.OUTTER MOTOR When cooling funtion:
Exhausung heat air from condensator to out door.
When heating funtion:
Exhausung cool air from evaporator to out door.

7.INNER MOTOR: When cooling funtion: Inspire indoor air through condensator to heat indoor air.

When heating funtion: Inspire indoor air through evaporator to cool indoor air.

8. 4-WAY VALVE: Exchange the direction of flow to refrigerant, the evaporator and condensator swap

The thorey for cooling funtion:

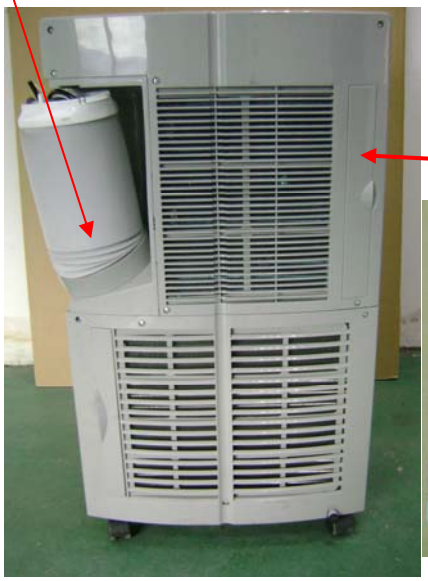
Using compressor to compress refrigerant to be high temperature-high pressure liquid and through condensator (Using Fan to exhaust the heat to outdoor).Refrigerant entry capillary after cool and become low temperature liquid state to flow in evaporator.Refrigerant become gasification in the evaporator and absorb heat,the temperature of evaporator low.(Using Fan to inspire indoor air through evaporator to cool indoor air) Compressor insprie gas state refrigerant again. Repeat this cycle step reached indoor cooling.

The thorey for heating funtion:

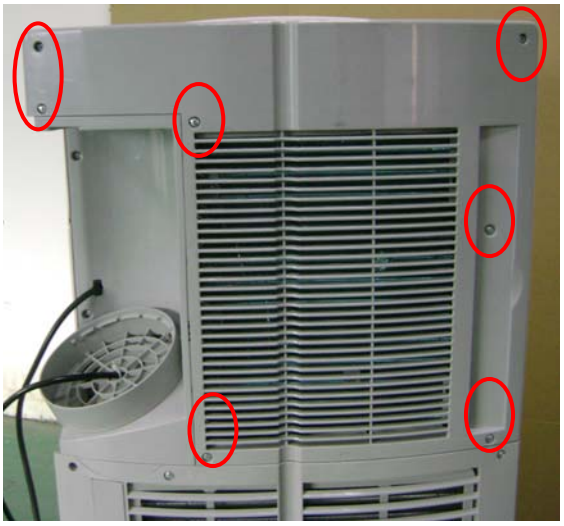
Using 4-way valve to swap the evaporator and condensator, blow hot air to indoor and exhaust cool air to outdoor.

8.SEQUENCE OF DISASSEMBLE

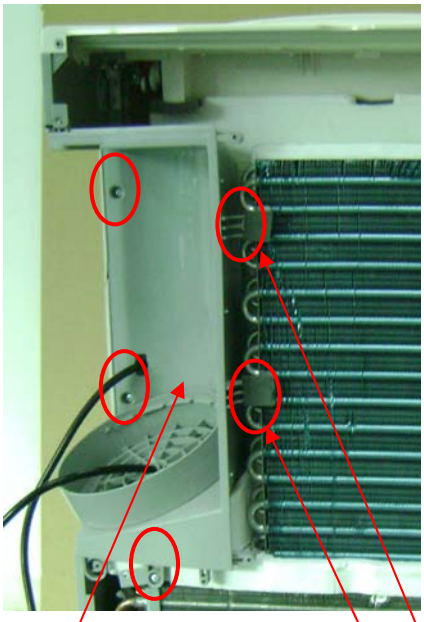
1. Take off exhaust from unit: rotates from right to left



2. pull out filter



3、take apart back panel
unload screw
please unload red mark as picture



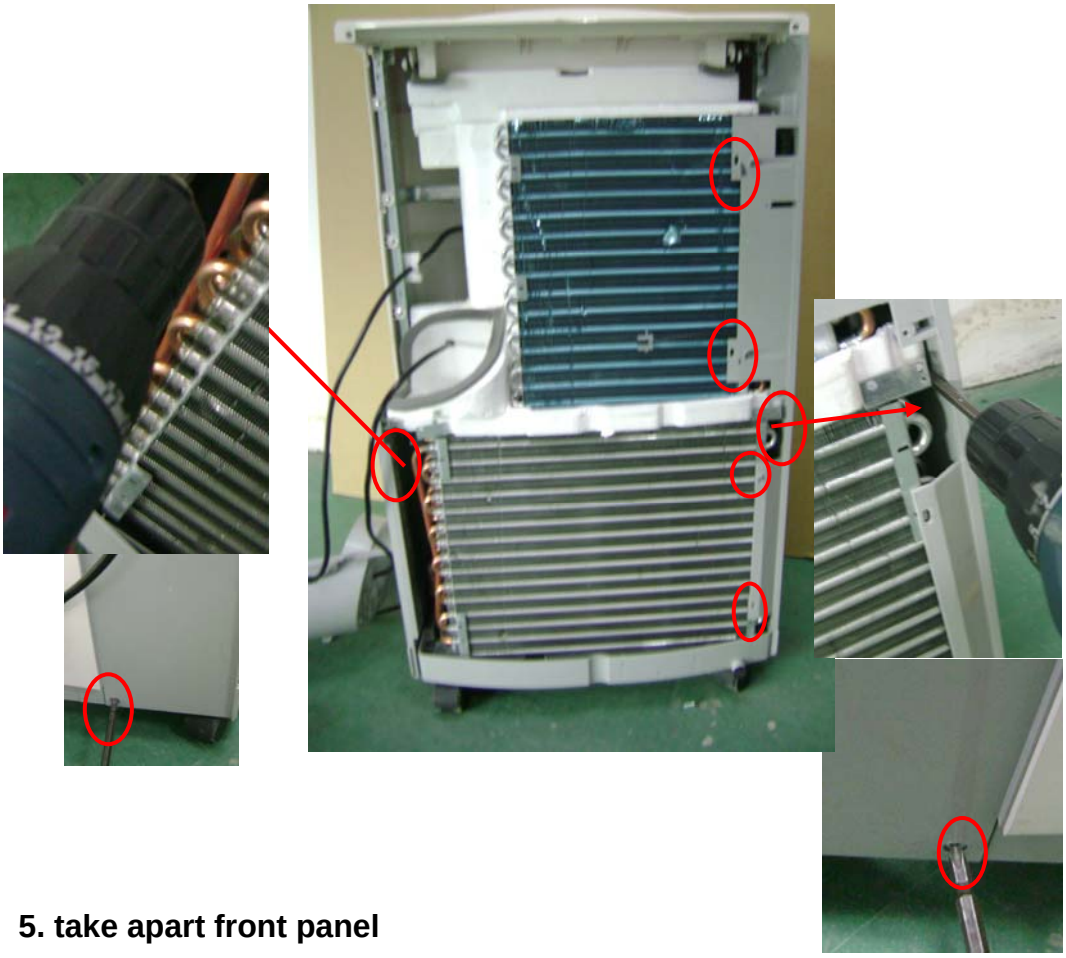
a. take apart left back panel

tear PE stick

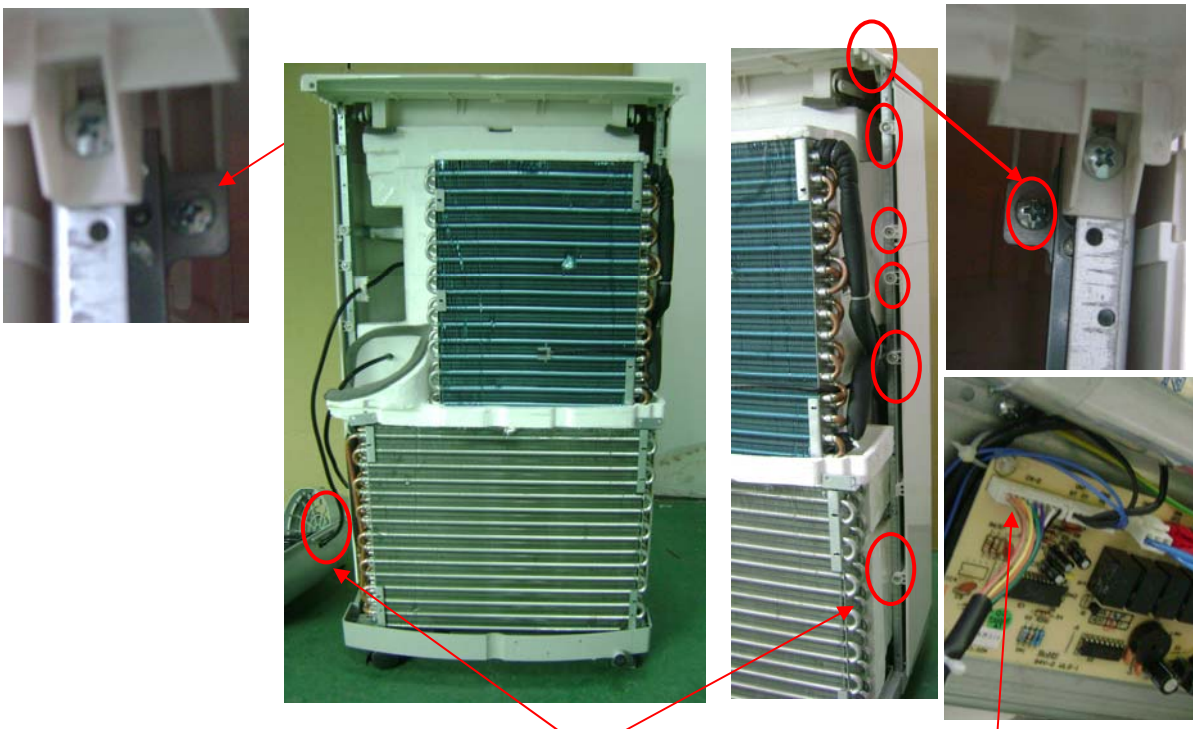
c. take apart right back upper panel

b. take apart right bottom panel

4. take apart left & right panel



5. take apart front panel

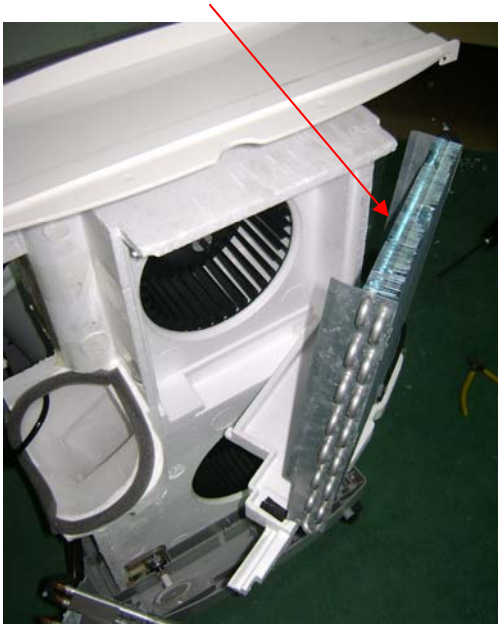


a: unload both side screw
b: pull out front panel

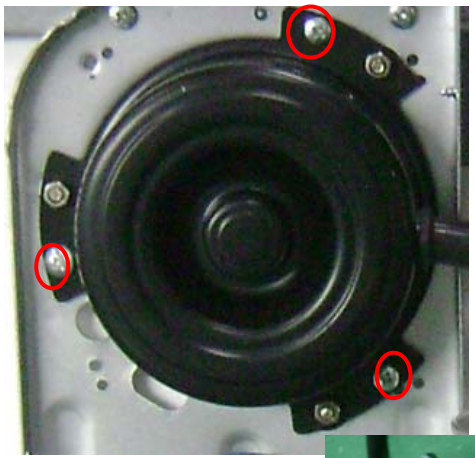
c: pull out all of connecting wire on PCB

6. take apart inner motor

a：remove the evaporator



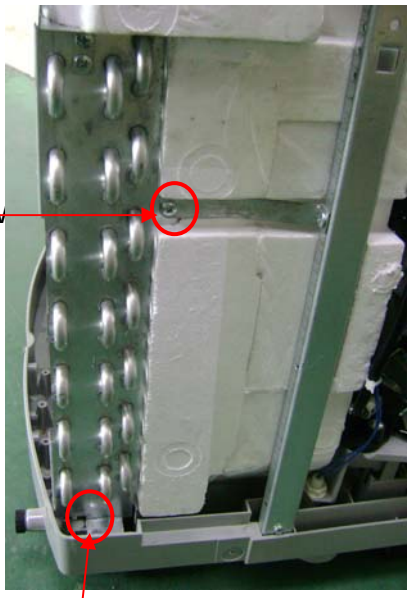
unload the screw of blower from air-outlet



unload 3 screw of motor

7. take apart outter motor

unload screw



a: unload screw on condensor both side

remove condenser

unload the screw of blower from air-outlet

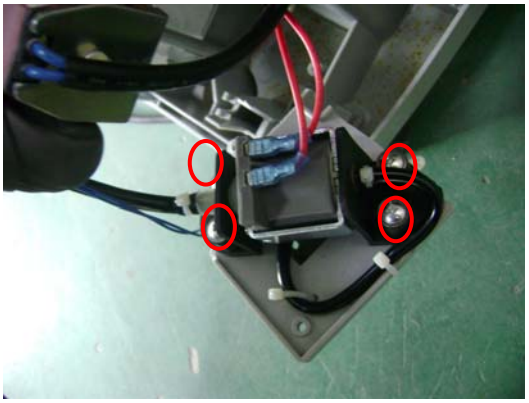
8. take apart the water motor

water motor

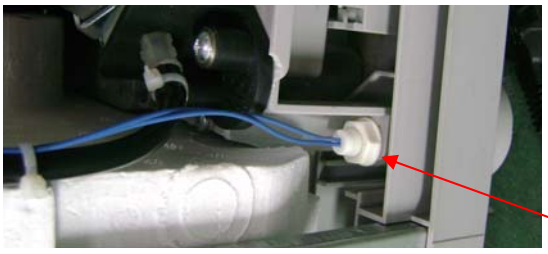
pull out the water wheel

water wheel

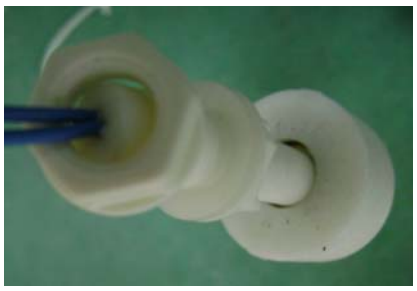
9. take apart water pump



10. take arapt float

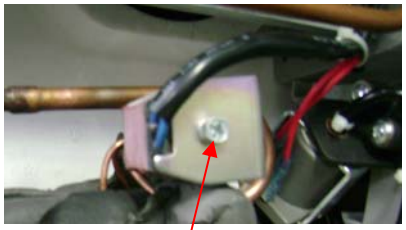


rotates from right to left



float

11. take apart 4 way valve



pull coil from unload screw

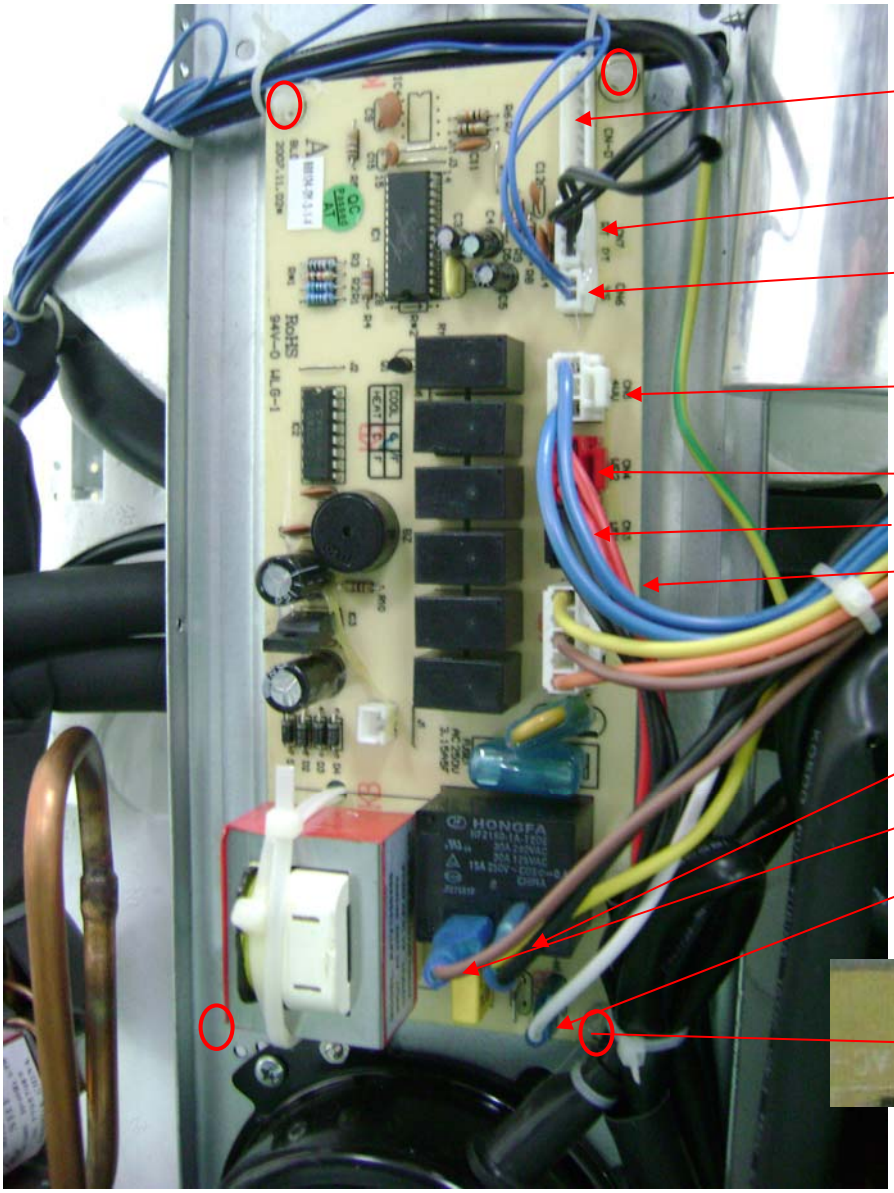
connect with
high pressure tube

connect with eva outlet

connect with
low pressure tube

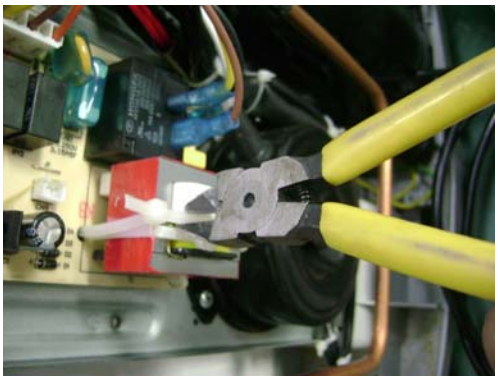
connect with condenser inlet

12. take apart PCB

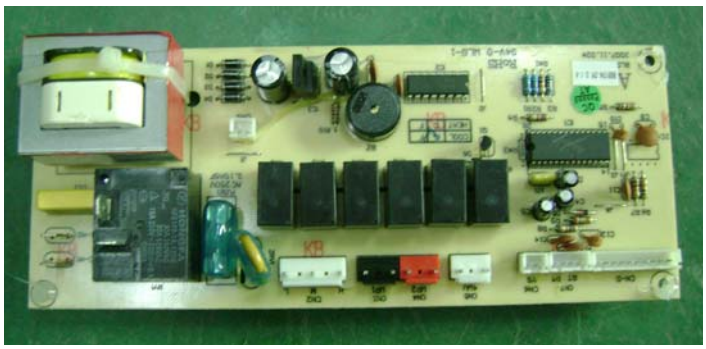


unload screw of PCB (4PCS)

pull out all of plug from PCB

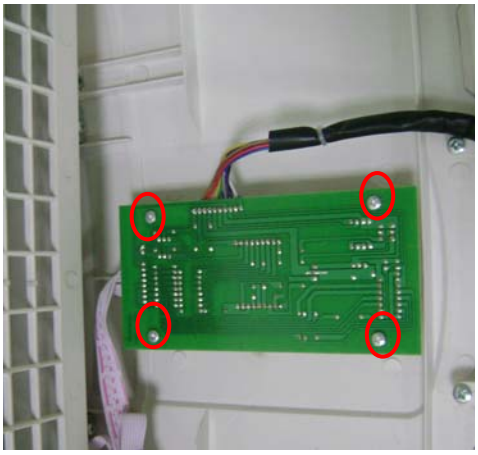


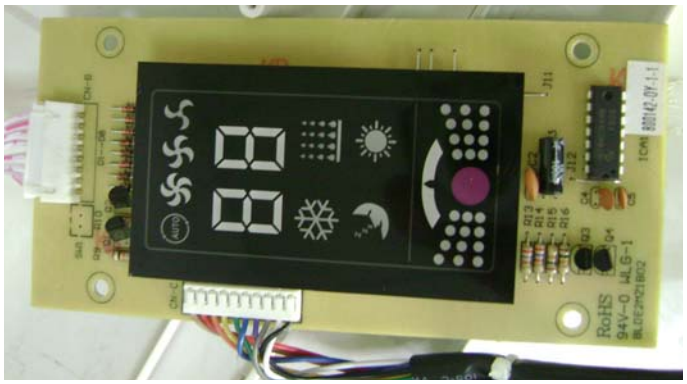
Cut The Fixer



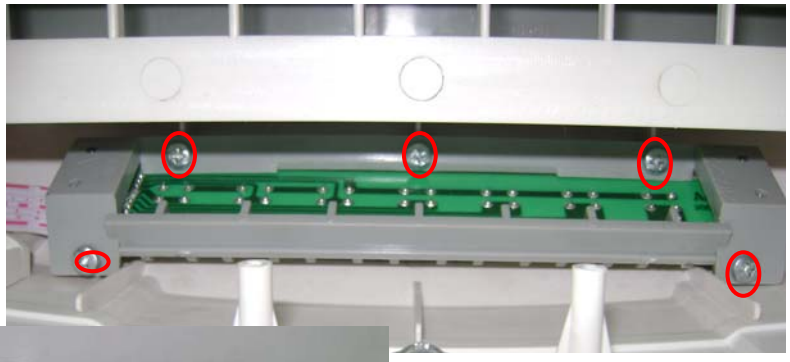
CONTROL PCB

13. take apart the display PCB



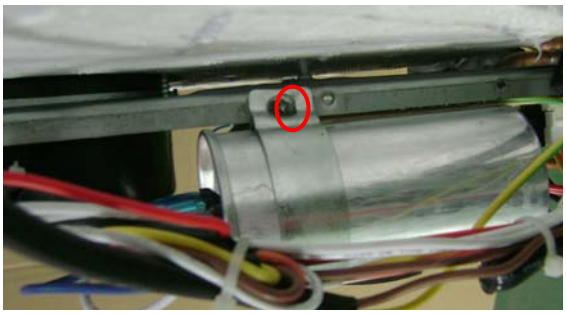


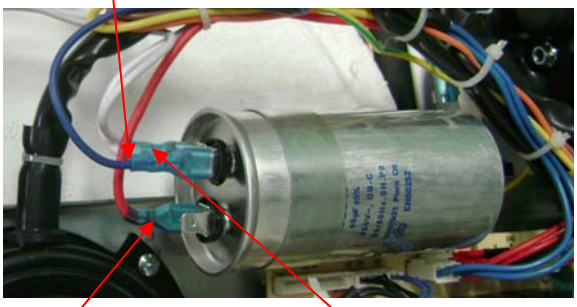
14. take apart the button PCB



15. take apart capacitance of compressor

blue wire(power)

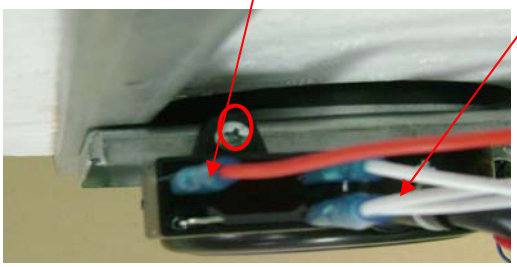




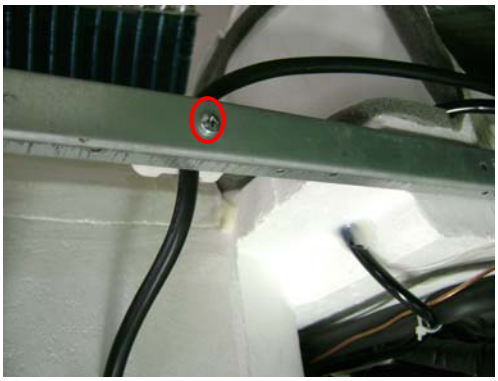
16. take apart capacitance of motor

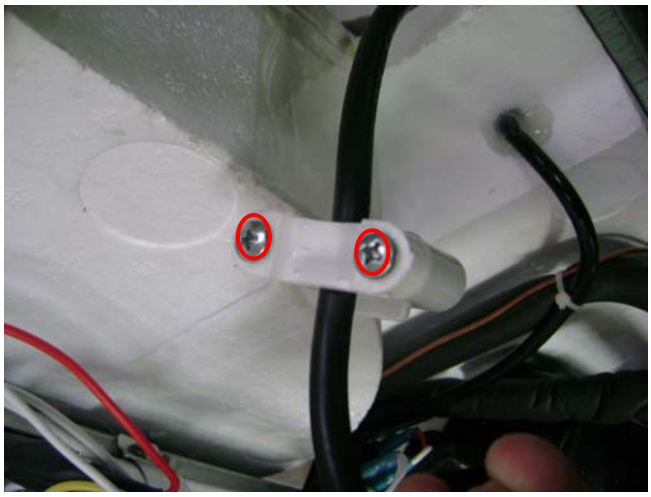
red wire

white wire

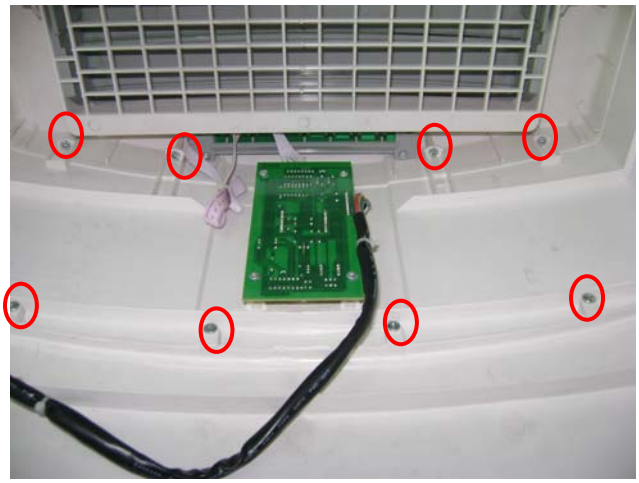


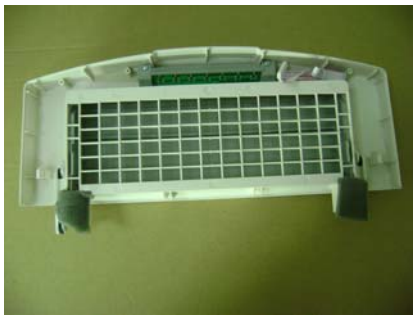
17. take apart power cord



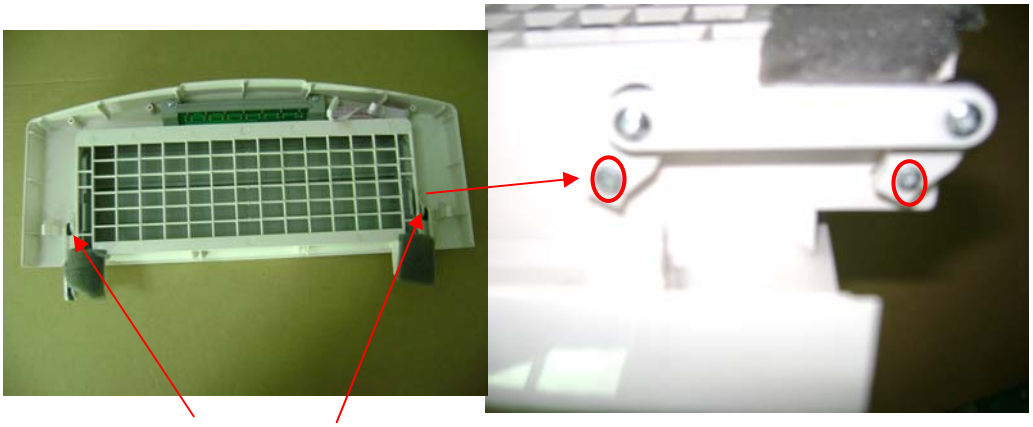


18. take apart top cover and front cover





19. take apart vane of air outlet



unload screw both side on panel

9.TROUBLE SHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
1：without action	1：power cord damage or inner wire broken	replace
	2：power cord loose or terminal loose	insert again
	3：PCB damage	fix PCB or replace it
2：abnormal display	1：bad connect main PCB with display PCB	connect again
	2：PCB damage	replace PCB
3：show E7	1: water full (water from Evaporator to plate)	drain out
	2：float damage	replace the float switch
	3：PCB damage	replace PCB
	4：wheel water stuck	clean up
	5: connecter water motor with PCB loose	insert again
	6：water motor damage	replace
4：without cooling but compressor keep work	1：refrigerant leakage or stuck	join with solder again and refill
5：compressor stop work	1：wire connect loose	insert again
	2：PCB damage	fix or replace
	3：capacitance of compressor damage	replace
	4：protecter of compressor switch off	replace
	5：compressor damage	fix or replace
6：compressor stop after work	1：room temperature over 35 ℃	over temperature range
	2：exhaust pipe stuck	clean up
	3：outter motor stuck	clean up
	4：outter motor wire connect loose	insert again
	5：outter motor damage	replace
7：cooling only without heating	1：PCB damage	fix or replace
	2：4 way valve damage	replace
8：noise	1：capillary touch something	adjust capillary
	2：fan bolwer touch styrofoam	adjust fan
	3：water wheel touch something	adjust water wheel
	4：noise from motor	replace
	5：noise from compressor	replace
9：fan motor stop work	1：vane of fan stuck	clean up
	2：connect loose	insert again
	3：capacitance damage	replace
	4：motor gamage	replace
	5： PCB damage	fix or replace

10.ELECTRIC CIRCUIT FIX

PROBLEM	CAUSE	HOW TO FIX IT
SHOW E1	1:room temperature sensor damage	replace the sensor or call service center
SHOW E2	1:eva temperature sensor damage	replace the sensor or call service center
WITHOUT ACTION	1:without power supply	check power and plug connect on or not
	2:without power into transformer	check power fuse connect or not
	3:without power out from transformer	transformer damage,replace it
	4:without power out from 7805	replace 7805 (mark on IC3)